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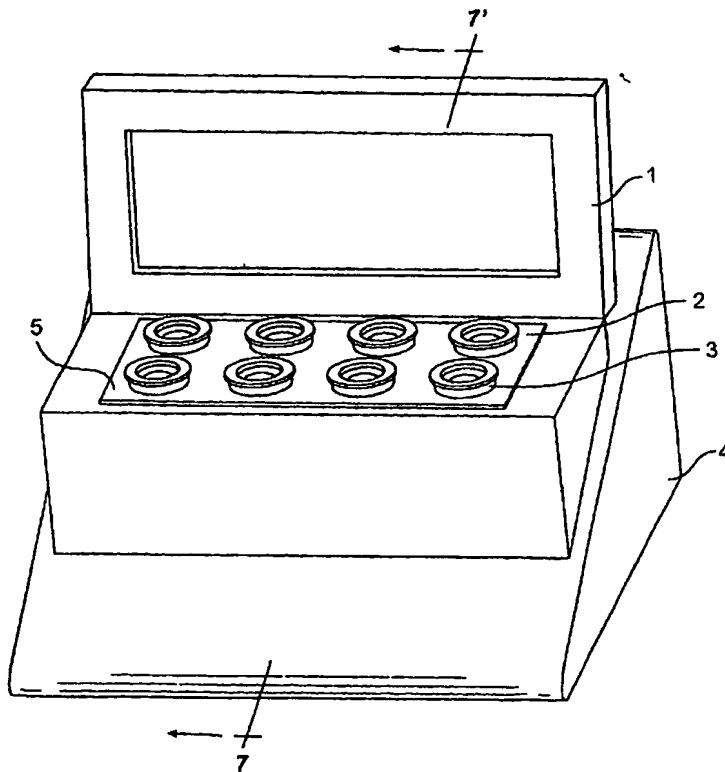
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(54) Title: ACOUSTIC ARRAY ANALYTICAL SYSTEM



(57) Abstract: A multi-channel acoustic measurement device, which includes a plurality of acoustic detectors (3) and dual temperature control (1, 2). The device employs piezoelectric crystal (21) as the sensing material in the detectors and has an appropriate driving device (40) connected to the detectors for oscillating the piezoelectric crystals. The device may also include a user interface. Also disclosed is a method of measuring in label-free mode at least one property of a plurality of samples in parallel using a plurality of acoustic detectors (3) and dual temperature control (1, 2).

WO 2004/040261 A3



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/34068

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01H 13/00

US CL : 73/579,19.03,865.5,581,54.01,54.24,54.41,61.49,61.75,64.53

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 73/579,19.03,865.5,581,54.01,54.24,54.41,61.49,61.75,64.53

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1,205,748 A (SKOG et al.) 15 May 2002 (15.05.2002), Abstract.	1-21
Y	US 2002/0032531 A (MANSKY et al.) 14 March 2002(14.03.2002), Fig. 8 and col. 7.	1-21
Y,P	US 2003/0090663 A (AUTREY et al.) 15 May 2003 (15.05.2003), Abstract.	1-21
Y,P	US 2002/0172620 A (POTYRAILO) 21 November 2002 (21.11.2002), Figs. 1-3 and 8 and par. 47 et seq.	1-21
Y,P	US 2003/0089170 A (AMONETTE et al.) 15 May 2003 (15.05.03) Fig. 19 and Abstract.	1-21
Y	US 2001/0008081 A (SMITH et al.) 19 July 2001 (19.07.2001) Abstract and Figs.5-6.	1-21

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Y,P	US 2003/0089170 A (AMONETTE et al.) 15 May 2003 (15.05.03) Fig. 19 and Abstract.	1-21
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